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Serial No. 09/817,457

Amendments to the Specification:

Please replace the title as follows:

TIME SLOT SORTING FOR A WIRELESS NETWORK

Replace the paragraph between page 4, line 23 and page 5, line 2 of the specification with the following:

With the algorithm to be described, a number N of time slots determined by the base station or the controller is started from, which time slots are rendered available by a TDMA frame for the data transmission. The algorithm decides which $N_{i,j}$ time slots are assigned for the transmission of data from a transmitting terminal WT_i to a receiving terminal WT_j for the following TDMA frame. $N_{i,j}$ thus denotes the number of time slots for a terminal ~~WT_i~~ WT_i that would like to transmit packets to the terminal WT_j . For example, 3 packets are to be transmitted from a terminal WT_1 to a terminal WT_2 $\{(N = 3)_{1,2}\}$, $\{[4]\}$ 5 packets from the terminal WT_1 to the terminal WT_4 $\{(N = 5)_{1,4}\}$, 4 packets from the terminal WT_1 to the terminal WT_3 $\{(N = 4)_{1,3}\}$, 1 packet from the terminal WT_3 to the terminal WT_1 $\{(N = 1)_{3,1}\}$, 2 packets from the terminal WT_3 to the terminal WT_2 $\{[[]]\}$ $\{(N = 2)_{3,2}\}$, 2 packets from the terminal WT_2 to the terminal WT_3 $\{(N = 2)_{2,3}\}$, 3 packets from the terminal WT_2 to the terminal WT_4 $\{(N [[-]] \equiv 3)_{2,4}\}$ and 5 packets from the terminal WT_4 to the terminal WT_2 $\{(N = 5)_{4,2}\}$. Here $(N = x)_{i,j}$ means that $N_{i,j}$ time slots are provided for a terminal WT_i , which transmits x packets to the terminal WT_j .

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Replace the paragraph on page 5, between lines 16-20 of the specification with the following:

The following algorithm minimizes the delay caused by the change-over time. First a variable $R(i)$ is defined for each terminal WT_i , which denotes the number of receiving terminals with which WT_i exchanges data in the following TDMA frame. For each N_i_j , j then varies from 1 to $R(i)$ ($j = 1, \dots, R(i)$). The total number of time slots that are reserved for a terminal WT_i may then be indicated by the variable $S(i)$ with